

## Personal Genome Service™

Get to know your DNA. All it takes is a little bit of spit.

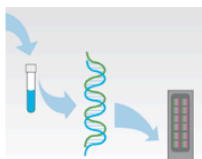
Here's what you do:



1. Order a kit from our [online store](#).



2. Register your kit, spit into the tube, and send it to the lab.



3. Our CLIA-certified lab analyzes your DNA in 6-8 weeks.



4. Log in and start exploring your genome.

PGS™

## Rs17822931

**s17822931**, also known as c.538G>A or G180R, is a SNP in the ATP-binding cassette, sub-family C (CFTR/MRP), member 11 **ABCC11** gene.

[PMID 16444273] This SNP determines wet vs dry earwax as well as sweat production, it is also associated with lipid secretion. It is commonly (T;T) for asians and (C;C) for europeans and africans.

**gnxp** indicates this SNP influences risk of breast cancer in Japanese women. This does not hold true in Caucasian women, though. [PMID 21655989]

[PMID 19650936] A strong association of axillary osmidrosis with the wet earwax type determined by genotyping of the **ABCC11** gene

[PMID 20937735] The impact of natural selection on an **ABCC11** SNP determining earwax type

is a	snp
is mentioned by	
dbSNP	<a href="#">rs17822931</a>
nextbio	<a href="#">rs17822931</a>
hapmap	<a href="#">rs17822931</a>
1000 genomes	<a href="#">rs17822931</a>
hgdp	<a href="#">rs17822931</a>
ensembl	<a href="#">rs17822931</a>
gpubmed	<a href="#">rs17822931</a>
scholar	<a href="#">rs17822931</a>
google	<a href="#">rs17822931</a>
pharmgkb	<a href="#">rs17822931</a>
hgvbase2p	<a href="#">rs17822931</a>
23andMe	<a href="#">rs17822931</a>
23andMe all	<a href="#">rs17822931</a>
SNP Nexus	<a href="#">rs17822931</a>
Gene	<b>ABCC11</b>
Chromosome	<b>16</b>
Orientation	<b>plus</b>
Position	48258198
Reference	GRCh37 37.1/131
Max Magnitude	0
Genotype	Effect
<a href="#">rs17822931(C;C)</a>	wet earwax
<a href="#">rs17822931(C;T)</a>	wet earwax
<a href="#">rs17822931(T;T)</a>	dry earwax

link to dbSNP

link to 23andMe

dbSNP strand

effects of the three possible genotypes

Demo Mode: This account does not have a genetic profile and is showing the **Mendel family** as an example. Order your **Personal Genome Service** now.

### My Home

Inbox

### My Health

Disease Risk

Carrier Status

Drug Response

Traits

Health Labs

Family Health History

### My Ancestry

Maternal Line

Paternal Line

Relative Finder

Ancestry Painting

Global Similarity

Ancestry Labs

## browse raw data

download raw data

Showing raw data for SNP **rs17822931**, which is on chromosome 16.

**16**  
88M Bases  
1099 Genes  
31k SNPs

Jump to a gene:  a SNP: **rs17822931**

or a chromosome:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 X Y MT

Return to your whole genome.

Gene	Position	SNP	Versions	Genotypes
<b>ABCC11</b>	46815699	rs17822931	C or T	CT CT
Reference Links:				
Entrez Gene				
Google Scholar (Gene)				
dbSNP Lookup				
Google Scholar (SNP)				

dbSNP Orientation: Plus

Lilly Mendel (Mom)  
Greg Mendel (Dad)

rs number	trait	dbSNP orientation	genotype on plus strand	genotype on minus strand	genotype on dbSNP strand	possible trait
rs17822931	dry vs wet earwax	plus	C;T	A;G	C;T	wet earwax
rs4988235	lactase persistence	minus	C;G	C;C	C;C	lactose intolerant



From SNPedia:

Genotype	Effect
<a href="#">rs17822931(C;C)</a>	wet earwax
<a href="#">rs17822931(C;T)</a>	wet earwax
<a href="#">rs17822931(T;T)</a>	dry earwax

Genotype	Effect
<a href="#">rs4988235(C;C)</a>	possibly lactose intolerant
<a href="#">rs4988235(C;T)</a>	can digest milk
<a href="#">rs4988235(T;T)</a>	can digest milk

- Blood type: O+
- Wet earwax
- Blue-grey-green eyes
- Perhaps slightly Neandertal-like?
- Likes broccoli and does not think it tastes particularly bitter.
- Likes coffee but never drinks it late afternoon/evening as she cannot fall asleep at night if she does.
- Loves candy.

- Blood type: A+
- Wet earwax
- Brown eyes
- He thinks that cabbage and broccoli taste quite bitter, but he likes it despite of this.
- Does not drink coffee at all.
- Does not consume candy at all (despite what his genotype suggests).

- Blood type: A+
- Wet earwax
- Brown eyes
- He thinks that cabbage and broccoli taste quite bitter, but he likes it despite of this.
- Does not drink coffee at all.
- Does not consume candy at all (despite what his genotype suggests).

- Blood type: B+
- Wet earwax
- Brown eyes
- Vegetarian. Loves broccoli and does not think it tastes particularly bitter.
- Never late afternoon/evening as he cannot fall asleep at night if he does.

- Blood type: A+
- Wet earwax
- Blue-grey-green eyes
- Loves broccoli and does not think it tastes particularly bitter.
- Drinks too much coffee.  
Preference: Black coffee, no sugar.
- At the department's christmas lunch a year ago, he was the only one steering clear of a stomach flu.

- Blood type: O+
- Wet earwax
- Blue-grey-green eyes
- Perhaps slightly Neandertal-like?
- Is not a big fan of cabbage, broccoli and other bitter-tasting food.
- If she drinks coffee, it always with sugar and milk and she never drinks it late afternoon/evening as she cannot fall asleep at night if she does.
- Loves candy.

- Blood type: A+
- Wet earwax
- Blue-grey-green eyes
- Loves broccoli and does not think it tastes particularly bitter.
- Drinks too much coffee.  
Preference: Black coffee, no sugar.
- At the department's christmas lunch a year ago, he was the only one steering clear of a stomach flu.

	Person A		Person B		Person C		Person D		Person E	
rs number	gt	possible trait	gt	possible trait	gt	possible trait	gt	possible trait	gt	possible trait
rs17822931	CC	wet earwax	CC	wet earwax	CT	wet earwax	CT	wet earwax	CC	wet earwax
rs713598	CG	can taste bitter	GG	possibly unable to taste bitter	GG	possibly unable to taste bitter	GG	possibly unable to taste bitter	CG	can taste bitter
rs5400	CT	significantly higher sugar consumption?	CC	normal sugar consumption	TT	significantly higher sugar consumption	CC	normal sugar consumption	CT	significantly higher sugar consumption?
rs2472297	CC	N/A	CT	increased coffee consumption	CC	N/A	CC	N/A	CC	N/A
rs762551	AC	carrier of one CYP1A2*1F allele; slow metabolizer	AA	normal	AC	carrier of one CYP1A2*1F allele; slow metabolizer	CC	CYP1A2 slow metabolizer.	AA	normal
i4001527	II	Rh+ blood	II	Rh+ blood	DI	Rh+ blood	II	Rh+ blood	II	Rh+ blood
rs8176719	--	likely to be of blood type O	GG	most likely to be of blood type A, B or AB	--	likely to be of blood type O	-G	most likely to be of blood type A or B	-G	most likely to be of blood type A or B
rs12571093	AG	ancestral Neanderthal allele (heterozygote)	GG	N/A	AG	ancestral Neanderthal allele (heterozygote)	GG	N/A	GG	N/A
rs601338	GG	normal response to Norwalk	AA	resistance to Norwalk virus infection	AG	normal response to Norwalk	AG	normal response to Norwalk	GG	normal response to Norwalk
rs12913832	GG	blue eye color, 99% of the time	GG	blue eye color, 99% of the time	GG	blue eye color, 99% of the time	AA	brown eye color, 80% of the time	AA	brown eye color, 80% of the time

	Person A		Person B		Person C		Person D		Person E	
rs number	genotype on dSNP strand	possible trait	genotype on dSNP strand	possible trait	genotype on dSNP strand	possible trait	genotype on dSNP strand	possible trait	genotype on dSNP strand	possible trait
rs17822931	CC		CC		CT		CT		CC	
rs713598	CG		GG		GG		GG		CG	
rs5400	CT		CC		TT		CC		CT	
rs2472297	CC		CT		CC		CC		CC	
rs782551	AC		AA		AC		CC		AA	
rs4001527	II		II		DI		II		II	
rs8176719	-		GG		-		-G		-G	
rs12571093	AG		GG		AG		GG		GG	
rs601338	GG		AA		AG		AG		GG	
rs12913832	GG		GG		GG		AA		AA	

	Person A	Person B	Person C	Person D	Person E
Who is it?					

Who is it?

### Person A

Agata

**Person B**

Kasper

### Person C

Kirstine

**Person D**

Ramneek

### Person E

Arcadio